

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
OFFICE ENGINEER, MS 43
1727 30TH STREET
P.O. BOX 168041
SACRAMENTO, CA 95816-8041
PHONE (916) 227-6230
FAX (916) 227-6214
TTY (916) 227-8454



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**** WARNING ** WARNING ** WARNING ** WARNING ****

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May 27, 2005

03-Pla-267-10.8/11.6
03-0E8904

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in PLACER COUNTY NEAR KINGS BEACH FROM 0.1 KM NORTH OF CARNELIAN BAY AVENUE TO 4.1 KM NORTH OF ROUTE 28.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on June 7, 2005.

This addendum is being issued to revise the Project Plans and the Notice to Contractors and Special Provisions.

Project Plan Sheets 10 and 12 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES," is revised as attached.

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL," is revised as attached.

In the Special Provisions, Section 10-1.23, "SAND BEDDING," is revised as attached.

In the Special Provisions, Section 10-1.40, "FILTER MEDIA (ACTIVATED ALUMINA)," is revised as attached.

In the Special Provisions, Section 10-1.41, "FILTER MEDIA (IRON-MODIFIED ACTIVATED ALUMINA)," is revised as attached.

In the Special Provisions, Section 10-1.42, "FILTER MEDIA (LIMESTONE)," is revised as attached.

In the Special Provisions, Section 10-1.14, "CONSTRUCTION ZONE ENHANCED ENFORCEMENT," is deleted.

Addendum No. 1
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May 27, 2005

03-Pla-267-10.8/11.6
03-0E8904

To Proposal and Contract book holders:

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by UPS overnight mail to Proposal and Contract book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL, Chief
Office of Plans, Specifications & Estimates
Office Engineer

Attachments

SECTION 4. BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES

Attention is directed to the provisions in Section 8-1.03, "Beginning of Work," in Section 8-1.06, "Time of Completion," and in Section 8-1.07, "Liquidated Damages," of the Standard Specifications and these special provisions.

The Contractor shall furnish the Engineer with a statement from the vendor that the order for the filter media required for this contract has been received and accepted by the vendor; and the statement shall be furnished within 15 calendar days after the contract has been approved by the Attorney General, or the attorney appointed and authorized to represent the Department of Transportation. The statement shall give the dates that the filter media will be shipped. If the Contractor has the necessary materials on hand, the Contractor will not be required to furnish the vendor's statement.

The Contractor shall begin work within 40 calendar days after the contract has been approved by the Attorney General or the attorney appointed and authorized to represent the Department of Transportation.

The work shall be diligently prosecuted to completion before the expiration of **45 WORKING DAYS** beginning on the date that work begins, or beginning on the fortieth calendar day after approval of the contract, whichever occurs first.

The Contractor shall pay to the State of California the sum of \$ 800 per day, for each and every calendar day's delay in finishing the work in excess of the number of working days prescribed above.

10-1.02 WATER POLLUTION CONTROL

Water pollution control work shall conform to the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications and these special provisions.

Water pollution control work shall conform to the requirements in the "Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual" and the "Construction Site Best Management Practices (BMPs) Manual," and addenda thereto issued up to, and including, the date of advertisement of the project. These manuals are hereinafter referred to respectively as the "Preparation Manual" and the "Construction Site BMPs Manual," and collectively, as the "Manuals." Copies of the Manuals may be obtained from the Department of Transportation, Material Operations Branch, Publication Distribution Unit, 1900 Royal Oaks Drive, Sacramento, California 95815, Telephone: (916) 445-3520, and may also be obtained from the Department's Internet website at: <http://www.dot.ca.gov/hq/construc/stormwater.html>.

The Contractor shall know and fully comply with applicable provisions of the Manuals, and Federal, State, and local regulations and requirements that govern the Contractor's operations and storm water and non-storm water discharges from both the project site and areas of disturbance outside the project limits during construction. Attention is directed to Sections 7-1.01, "Laws to be Observed," and 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

Water pollution control requirements shall apply to storm water and non-storm water discharges from areas outside the project site which are directly related to construction activities for this contract including, but not limited to, asphalt batch plants, material borrow areas, concrete plants, staging areas, storage yards and access roads. The Contractor shall comply with the Manuals for those areas and shall implement, inspect and maintain the required water pollution control practices. Installing, inspecting and maintaining water pollution control practices on areas outside the highway right of way not specifically arranged and provided for by the Department for the execution of this contract, will not be paid for.

The Contractor shall be responsible for penalties assessed or levied on the Contractor or the Department as a result of the Contractor's failure to comply with the provisions in this section "Water Pollution Control" including, but not limited to, compliance with the applicable provisions of the Manuals, and Federal, State and local regulations and requirements as set forth therein.

Penalties as used in this section shall include fines, penalties and damages, whether proposed, assessed, or levied against the Department or the Contractor, including those levied under the Federal Clean Water Act and the State Porter-Cologne Water Quality Control Act, by governmental agencies or as a result of citizen suits. Penalties shall also include payments made or costs incurred in settlement for alleged violations of the Manuals, or applicable laws, regulations, or requirements. Costs incurred could include sums spent instead of penalties, in mitigation or to remediate or correct violations.

RETENTION OF FUNDS

Notwithstanding any other remedies authorized by law, the Department may retain money due the Contractor under the contract, in an amount determined by the Department, up to and including the entire amount of Penalties proposed, assessed, or levied as a result of the Contractor's violation of the Manuals, or Federal or State law, regulations or requirements. Funds may be retained by the Department until final disposition has been made as to the Penalties. The Contractor shall remain liable for the full amount of Penalties until such time as they are finally resolved with the entity seeking the Penalties.

Retention of funds for failure to conform to the provisions in this section, "Water Pollution Control," shall be in addition to the other retention amounts required by the contract. The amounts retained for the Contractor's failure to conform to provisions in this section will be released for payment on the next monthly estimate for partial payment following the date when an approved WPCP has been implemented and maintained, and when water pollution has been adequately controlled, as determined by the Engineer.

When a regulatory agency identifies a failure to comply with the Manuals, or other Federal, State or local requirements, the Department may retain money due the Contractor, subject to the following:

- A. The Department will give the Contractor 30 days notice of the Department's intention to retain funds from partial payments which may become due to the Contractor prior to acceptance of the contract. Retention of funds from payments made after acceptance of the contract may be made without prior notice to the Contractor.
- B. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to Section 9-1.06, "Partial Payments," of the Standard Specifications.
- C. If the Department has retained funds, and it is subsequently determined that the State is not subject to the entire amount of the Costs and Liabilities assessed or proposed in connection with the matter for which the retention was made, the Department shall be liable for interest on the amount retained for the period of the retention. The interest rate payable shall be 6 percent per annum.

During the first estimate period that the Contractor fails to conform to the provisions in this section, "Water Pollution Control," the Department may retain an amount equal to 25 percent of the estimated value of the contract work performed.

The Contractor shall notify the Engineer immediately upon request from the regulatory agencies to enter, inspect, sample, monitor, or otherwise access the project site or the Contractor's records pertaining to water pollution control work. The Contractor and the Department shall provide copies of correspondence, notices of violations, enforcement actions or proposed fines by regulatory agencies to the requesting regulatory agency.

WATER POLLUTION CONTROL PROGRAM PREPARATION, APPROVAL AND AMENDMENTS

As part of the water pollution control work, a Water Pollution Control Program (WPCP) is required for this contract. The WPCP shall conform to the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications, the requirements in the Manuals, and these special provisions. Upon the Engineer's approval of the WPCP, the WPCP shall be considered to fulfill the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications for development and submittal of a Water Pollution Control Program.

No work having potential to cause water pollution, shall be performed until the WPCP has been approved by the Engineer. Approval shall not constitute a finding that the WPCP complies with applicable requirements of the Manuals and applicable Federal, State and local laws, regulations, and requirements.

The Contractor shall designate a Water Pollution Control Manager. The Water Pollution Control Manager shall be responsible for the preparation of the WPCP and required modifications or amendments, and shall be responsible for the implementation and adequate functioning of the various water pollution control practices employed. The Contractor may designate different Water Pollution Control Managers to prepare the WPCP and to implement the water pollution control practices. The Water Pollution Control Managers shall serve as the primary contact for issues related to the WPCP or its implementation. The Contractor shall assure that the Water Pollution Managers have adequate training and qualifications necessary to prepare the WPCP, implement and maintain water pollution control practices.

Within 5 calendar days after the approval of the contract, the Contractor shall submit 3 copies of the draft WPCP to the Engineer. The Engineer will have 5 working days to review the WPCP. If revisions are required, as determined by the Engineer, the Contractor shall revise and resubmit the WPCP within 2 working days of receipt of the Engineer's comments. The Engineer will have 1 working day to review the revisions. Upon the Engineer's approval of the WPCP, 5 approved copies of the WPCP, incorporating the required changes, shall be submitted to the Engineer. At which time, the Engineer will submit 1 copy of the approved WPCP to the Lahontan RWQCB and Tahoe Regional Planning Agency (TRPA) for their review and comment. Modifications to the WPCP resulting from the Lahontan RWQCB and TRPA review shall be incorporated through WPCP amendment as directed by the Engineer. Construction activities shall begin no sooner than 30 calendar days after the Engineer's approval of the WPCP. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for resulting losses, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The WPCP shall incorporate water pollution control practices in the following categories:

- A. Soil stabilization.
- B. Sediment control.
- C. Wind erosion control.
- D. Tracking control.
- E. Non-storm water management.
- F. Waste management and materials pollution control.

The Contractor shall develop a Water Pollution Control Schedule that describes the timing of grading or other work activities that could affect water pollution. The Water Pollution Control Schedule shall be updated by the Contractor to reflect changes in the Contractor's operations that would affect the necessary implementation of water pollution control practices.

The Contractor shall complete the BMP checklists for each of the six categories presented in Section 3 of the Preparation Manual and shall incorporate the completed checklists and water pollution control practices into Sections 30.1, 30.2, and 30.3 of the WPCP. Water pollution control practices include the "Minimum Requirements" and other Contractor-selected water pollution control practices from the BMP checklists and "Project-Specific Minimum Requirements" identified in the Water Pollution Control Cost Break-Down of this section.

The following contract items of work shall be incorporated into the WPCP as "Temporary Water Pollution Control Practices": temporary silt fence. The Contractor's attention is directed to the special provisions provided for Temporary Water Pollution Control Practices.

The WPCP shall include, but not be limited to, the items described in the Manuals and related information contained in the contract documents. The WPCP shall also include a copy of the following: Tahoe Regional Planning Agency Permit and Lahontan RWQCB Permit.

The Contractor shall prepare an amendment to the WPCP when there is a change in construction activities or operations which may affect the discharge of pollutants to surface waters, ground waters, municipal storm drain systems, or when the Contractor's activities or operations violate Federal, State or local regulations, or when directed by the Engineer. Amendments shall identify additional water pollution control practices or revised operations, including those areas or operations not identified in the initially approved WPCP. Amendments to the WPCP shall be prepared and submitted for review and approval within a time approved by the Engineer, but in no case longer than the time specified for the initial submittal and review of the WPCP.

The Contractor shall keep one copy of the approved WPCP and approved amendments at the project site. The WPCP shall be made available upon request by a representative of the Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency, or the local storm water management agency. Requests by the public shall be directed to the Engineer.

COST BREAK-DOWN

The Contractor shall include a Water Pollution Control Cost Break-Down in the WPCP which itemizes the contract lump sum for water pollution control work. The Contractor shall use the Water Pollution Control Cost Break-Down provided in this section as the basis for the cost break-down submitted with the WPCP. The Contractor shall use the Water Pollution Control Cost Break-Down to identify items, quantities and values for water pollution control work, excluding Temporary Water Pollution Control Practices for which there is a separate bid item. The Contractor shall be responsible for the accuracy of the quantities and values used in the cost break-down submitted with the WPCP. Partial payment for the item of water pollution control will not be made until the Water Pollution Control Cost Break-Down is approved by the Engineer.

Line items indicated in the Water Pollution Control Cost Break-Down in this section with a specified Estimated Quantity shall be considered a "Project-Specific Minimum Requirement." The Contractor shall incorporate the items with Contractor-designated quantities and values into the Water Pollution Control Cost Break-Down submitted with the WPCP.

Line items indicated in the Water Pollution Control Cost Break-Down in this section without a specified Estimated Quantity shall be considered by the Contractor for selection to meet the applicable "Minimum Requirements" as defined in the Manuals, or for other water pollution control work as identified in the BMP checklists presented in Section 3 of the Preparation Manual. In the Water Pollution Control Cost Break-Down submitted with the WPCP, the Contractor shall list only those water pollution control practices selected for the project, including quantities and values required to complete the work for those items.

The sum of the amounts for the items of work listed in the Water Pollution Control Cost Break-Down shall be equal to the contract lump sum price bid for water pollution control. Overhead and profit shall be included in each individual item listed in the cost break-down.

WATER POLLUTION CONTROL COST BREAK-DOWN**Contract No. 03-0E8904**

ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	VALUE	AMOUNT
SS-3	Hydraulic Mulch	M2			
SS-4	Hydroseeding	M2			
SS-5	Soil Binders	M2			
SS-6	Straw Mulch	M2			
SS-7	Geotextiles, Plastic Covers & Erosion Control Blankets/Mats	M2			
SS-8	Wood Mulching	M2			
SS-9	Earth Dikes/Drainage Swales & Lined Ditches	M			
SS-10	Outlet Protection/Velocity Dissipation Devices	EA			
SS-11	Slope Drains	EA			
SS-12	Streambank Stabilization	LS			
SC-1	Silt Fence	M			
SC-2	Sediment/Desilting Basin	EA			
SC-3	Sediment Trap	EA			
SC-4	Check Dam	EA			
SC-5	Fiber Rolls	M			
SC-6	Gravel Bag Berm	M			
SC-7	Street Sweeping and Vacuuming	LS			
SC-8	Sandbag Barrier	M			
SC-9	Straw Bale Barrier	M			
SC-10	Storm Drain Inlet Protection	EA			
WE-1	Wind Erosion Control	LS			
TC-1	Stabilized Construction Entrance/Exit	EA			
TC-2	Stabilized Construction Roadway	EA			

CONTRACT NO. 03-0E8904
REVISED PER ADDENDUM NO. 1 DATED MAY 27, 2005

ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	VALUE	AMOUNT
TC-3	Entrance/Outlet Tire Wash	EA			
NS-1	Water Conservation Practices	LS			
NS-2	Dewatering Operations	EA			
NS-3	Paving and Grinding Operations	LS			
NS-4	Temporary Stream Crossing	EA			
NS-5	Clear Water Diversion	EA			
NS-6	Illicit Connection/Illegal Discharge Detection and Reporting	LS			
NS-7	Potable Water/Irrigation	LS			
NS-8	Vehicle and Equipment Cleaning	LS			
NS-9	Vehicle and Equipment Fueling	LS			
NS-10	Vehicle and Equipment Maintenance	LS			
NS-11	Pile Driving Operations	LS			
NS-12	Concrete Curing	LS			
NS-13	Material and Equipment Use over Water	LS			
NS-14	Concrete Finishing	LS			
NS-15	Structure Demolition/Removal Over or Adjacent to Water	LS			
WM-1	Material Delivery and Storage	LS			
WM-2	Material Use	LS			
WM-3	Stockpile Management	LS			
WM-4	Spill Prevention and Control	LS			
WM-5	Solid Waste Management	LS			
WM-6	Hazardous Waste Management	LS			
WM-7	Contaminated Soil Management	LS			
WM-8	Concrete Waste Management	LS			
WM-9	Sanitary/Septic Waste Management	LS			
WM-10	Liquid Waste Management	LS			

TOTAL _____

Adjustments in the items of work and quantities listed in the approved cost break-down shall be made when required to address amendments to the WPCP, except when the adjusted items are paid for as extra work.

No adjustment in compensation will be made to the contract lump sum price paid for water pollution control due to differences between the quantities shown in the approved cost break-down and the quantities required to complete the work as shown on the approved WPCP. No adjustment in compensation will be made for ordered changes to correct WPCP work resulting from the Contractor's own operations or from the Contractor's negligence.

The approved cost break-down will be used to determine partial payments during the progress of the work and as the basis for calculating the adjustment in compensation for the item of water pollution control due to increases or decreases of quantities ordered by the Engineer. When an ordered change increases or decreases the quantities of an approved cost break-down item, the adjustment in compensation will be determined in the same manner specified for increases and decreases in the quantity of a contract item of work in conformance with the provisions in Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications. If an ordered change requires a new item which is not on the approved cost break-down, the adjustment in compensation will be determined in the same manner specified for extra work in conformance with Section 4-1.03D, "Extra Work," of the Standard Specifications.

If requested by the Contractor and approved by the Engineer, changes to the water pollution control practices listed in the approved cost break-down, including addition of new water pollution control practices, will be allowed. Changes shall be included in the approved amendment of the WPCP. If the requested changes result in a net cost increase to the lump sum price for water pollution control, an adjustment in compensation will be made without change to the water pollution control item. The net cost increase to the water pollution control item will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications.

WPCP IMPLEMENTATION

Unless otherwise specified, upon approval of the WPCP, the Contractor shall be responsible throughout the duration of the project for installing, constructing, inspecting, maintaining, removing, and disposing of the water pollution control practices specified in the WPCP and in the amendments. Unless otherwise directed by the Engineer, the Contractor's responsibility for WPCP implementation shall continue throughout any temporary suspension of work ordered in conformance with the provisions in Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications. Requirements for installation, construction, inspection, maintenance, removal, and disposal of water pollution control practices shall conform to the requirements in the Manuals and these special provisions.

If the Contractor or the Engineer identifies a deficiency in the implementation of the approved WPCP or amendments, the deficiency shall be corrected immediately. The deficiency may be corrected at a later date and time if requested by the Contractor and approved by the Engineer in writing, but shall be corrected prior to the onset of precipitation. If the Contractor fails to correct the identified deficiency by the date agreed or prior to the onset of precipitation, the project shall be in nonconformance with this section. Attention is directed to Section 5-1.01, "Authority of Engineer," of the Standard Specifications, and to "Retention of Funds" of this section for possible nonconformance penalties.

If the Contractor fails to conform to the provisions of this section, "Water Pollution Control," the Engineer may order the suspension of construction operations until the project complies with the requirements of this section.

Implementation of water pollution control practices may vary by season. The Construction Site BMPs Manual and these special provisions shall be followed for control practice selection of year-round, rainy season and non-rainy season water pollution control practices.

Year-Round Implementation Requirements

The Contractor shall have a year-round program for implementing, inspecting and maintaining water pollution control practices for wind erosion control, tracking control, non-storm water management, and waste management and materials pollution control.

The National Weather Service weather forecast shall be monitored and used by the Contractor on a daily basis. An alternative weather forecast proposed by the Contractor may be used if approved by the Engineer. If precipitation is predicted, the necessary water pollution control practices shall be deployed prior to the onset of the precipitation.

Disturbed soil areas shall be considered active whenever the soil disturbing activities have occurred, continue to occur or will occur during the ensuing 21 days. Nonactive areas shall be protected as prescribed in the Construction Site BMPs Manual within 14 days of cessation of soil disturbing activities or prior to the onset of precipitation, whichever occurs first.

In order to provide effective erosion control, the Contractor may be directed by the Engineer to apply permanent erosion control in small or multiple units. The Contractor's attention is directed to "Erosion Control (Type D)" and "Move-In/Move-Out (Erosion Control)" of these special provisions.

The Contractor shall implement, maintain and inspect the following temporary sediment control practices on a year-round basis. The listed practices shall remain in place until their use is no longer needed, as determined by the Engineer.

YEAR-ROUND SEDIMENT CONTROL PRACTICES	LOCATION USED
Temporary silt fence	KP 10.8 – 11.6

Rainy Season Implementation Requirements

Soil stabilization and sediment control practices conforming to the requirements of these special provisions shall be provided throughout the rainy season, defined as between August 1 and October 1 and between November 1 and May 1.

An implementation schedule of required soil stabilization and sediment control practices for disturbed soil areas shall be completed no later than 20 days prior to the beginning of each rainy season. The implementation schedule shall identify the soil stabilization and sediment control practices and the dates when the implementation will be 25 percent, 50 percent and 100 percent complete, respectively. For construction activities beginning during the rainy season, the Contractor shall implement applicable soil stabilization and sediment control practices.

Winter Shutdown

Unless granted a variance by the RWQCB Executive Officer, there shall be neither removal of vegetation nor disturbance of existing ground surface conditions between October 15 of a year and May 1 of the following year, except when there is an emergency situation that threatens the public health or welfare.

Non-Rainy Season Implementation Requirements

The non-rainy season shall be defined as days outside the defined rainy season. The Contractor's attention is directed to the Construction Site BMPs Manual for soil stabilization and sediment control implementation requirements on disturbed soil areas during the non-rainy season. Disturbed soil areas within the project shall be protected in conformance with the requirements in the Construction Site BMPs Manual with an effective combination of soil stabilization and sediment control.

MAINTENANCE

To ensure the proper implementation and functioning of water pollution control practices, the Contractor shall regularly inspect and maintain the construction site for the water pollution control practices identified in the WPCP. The construction site shall be inspected by the Contractor as follows:

- A. Prior to a forecast storm.
- B. After a precipitation event which causes site runoff.
- C. Daily.

The Contractor shall use the Storm Water Quality Construction Site Inspection Checklist provided in the Preparation Manual or an alternative inspection checklist provided by the Engineer. One copy of each site inspection record shall be submitted to the Engineer within 24 hours of completing the inspection.

REPORTING REQUIREMENTS

Report of Discharges, Notices or Orders

If the Contractor identifies discharges into surface waters or drainage systems in a manner causing, or potentially causing, a condition of pollution, or if the project receives a written notice or order from a regulatory agency, the Contractor shall immediately inform the Engineer. The Contractor shall submit a written report to the Engineer within 7 days of the discharge event, notice or order. The report shall include the following information:

- A. The date, time, location, nature of the operation, and type of discharge, including the cause or nature of the notice or order.
- B. The water pollution control practices deployed before the discharge event, or prior to receiving the notice or order.

- C. The date of deployment and type of water pollution control practices deployed after the discharge event, or after receiving the notice or order, including additional measures installed or planned to reduce or prevent reoccurrence.
- D. An implementation and maintenance schedule for affected water pollution control practices.

Report of First-Time Non-Storm Water Discharge

The Contractor shall notify the Engineer at least 3 days in advance of first-time non-storm water discharge events. The Contractor shall notify the Engineer of the operations causing non-storm water discharges and shall obtain field approval for first-time non-storm water discharges. Non-storm water discharges shall be monitored at first-time occurrences and routinely thereafter.

PAYMENT

The contract lump sum price paid for prepare water pollution control program shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in developing, preparing, obtaining approval of, revising, and amending the WPCP, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Attention is directed to Section 9-1.06, "Partial Payments," and Section 9-1.07, "Payment After Acceptance," of the Standard Specifications. Payments for Prepare Water Pollution Control Program will be made as follows:

- A. After the WPCP has been approved by the Engineer, 75 percent of the contract item price for Prepare Water Pollution Control Program will be included in the monthly partial payment estimate.
- B. After acceptance of the contract in conformance with the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, payment for the remaining 25 percent of the contract item price for Prepare Water Pollution Control Program will be made in conformance with the provisions in Section 9-1.07.

The contract lump sum price paid for water pollution control shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing, constructing, maintaining, removing, and disposing of water pollution control practices, including non-storm water management, and waste management and materials pollution water pollution control practices, except those for which there is a contract item of work as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Water pollution control practices for which there is a contract item of work will be measured and paid for as that contract item of work.

10-1.23 SAND BEDDING

Sand Bedding shall conform with the details shown on the plans, and to the provisions in Section 19-3.025B, "Sand Bedding," of the Standard Specifications, and these special provisions. Sand bedding shall be manufactured specifically for water filtration purposes and shall comply with the AWWA Standard B-100-00.

Prior to ordering the sand bedding, the Contractor shall furnish the Engineer a sample of sand bedding along with certified test results from a qualified testing laboratory that verify the sand bedding complies with the requirements of these special provisions.

Sand bedding will be measured by the cubic meter. Quantities of sand bedding will be determined from the dimensions shown on the plans or such other dimensions as may be ordered in writing by the Engineer.

The contract price paid per cubic meter for sand bedding shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in placing sand bedding, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.40 FILTER MEDIA (ACTIVATED ALUMINA)

Filter media (activated alumina) shall conform with the details shown on the plans and to these special provisions.

Filter media (activated alumina) shall be Almatix DD-6 Activated Alumina or equal conforming to the following requirements:

Filter Media (Activated Alumina) Properties

Physical	
Size	28 x 48 Mesh
Percent Larger than 28 Mesh (Wt. %)	20% Max
Percent Smaller than 48 Mesh (Wt. %)	10% Max
Effective Size (mm)	0.30
Uniformity Coefficient	1.6
Surface Area, m ² /g	320
Total pore volume, cc/g	0.5
Alumina XRD phase	Amorphous, chi, and gamma
Packed bulk density, kg/m ³	641

Chemical (Wt.%)	
Al ₂ O ₃	91.5
SiO ₂	0.02
Fe ₂ O ₃	0.03
Na ₂ O	0.35
Loss on Ignition (25 – 1100 °C)	8.0

Arrangements have been made to ensure that any successful bidder can obtain the Almatix DD-6 Activated Alumina from the supplier, Schoofs Inc., 5900 S. Eastern Avenue, Suite 108, Los Angeles, CA 90040, Telephone (323) 725-7612. The price quoted by the manufacturer for Almatix DD-6 Activated Alumina, FOB Port Allen, LA is \$1,017, not including sales tax.

The above price will be firm for orders placed on or before August 31, 2005, provided delivery is accepted within 90 days after the order is placed.

Not less than 8 weeks prior to placing filter media (activated alumina), the Contractor shall furnish the Engineer a statement from the vendor that the order for the filter media (activated alumina) required for this contract has been received and accepted by the vendor. The statement from the vendor shall include the quantity of filter media (activated alumina) ordered and the anticipated date of delivery.

A Certificate of Compliance from the manufacturer of the filter media (activated alumina) shall be furnished in accordance with the provisions of Section 6-1.07, "Certificates of Compliance" of the Standard Specifications.

Filter media (activated alumina) shall be handled in accordance with the Materials Information Hand Out , and installed in conformance with "Wash Filter Media" of these special provisions and as directed by the Engineer.

Filter media (activated alumina) shall be measured by the cubic meter. Quantities of filter media (activated alumina) will be determined from the dimensions shown on the plans.

The contract price paid per cubic meter for filter media (activated alumina) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for performing work involved in placing filter media (activated alumina) , complete in place, as shown on the plans, as specified in the Standard Specifications

10-1.41 FILTER MEDIA (IRON-MODIFIED ACTIVATED ALUMINA)

Filter media (iron-modified activated alumina) shall conform with the details shown on the plans and to these special provisions.

Filter media (iron-modified activated alumina) shall be Alcan AAFS-50 Iron-Modified Activated Alumina or equal conforming to the following requirements:

Filter Media (Iron-Modified Activated Alumina) Properties

Physical	
Size	28 x 48 Mesh
Percent Larger than 28 Mesh (Wt. %)	20% Max
Percent Smaller than 48 Mesh (Wt. %)	10% Max
Surface Area, m ² /g	200 Min
Bulk Density (g/cm ³)	1.06
Attrition (%)	0.3

Chemical (Wt.%)	
Al ₂ O ₃ + proprietary additive	83
Silicon as SiO ₂	0.02
Titanium as TiO ₂	0.002
Loss on Ignition (0 to 300 °C)	30 Max
Loss on Ignition (300 to 1000 °C)	15 Max

Arrangements have been made to ensure that any successful bidder can obtain the Alcan AAFS-50 Iron-Modified Activated Alumina from the manufacturer, Alcan Specialty Alumina, 4000 Development Drive, Brockville, ON K6V 5V5, Telephone (630) 527-1213. The price quoted by the manufacturer for Alcan AAFS-50 Iron-Modified Activated Alumina, FOB Brockville, ON is \$1,888 per cubic meter, not including sales tax.

The above price will be firm for orders placed on or before December 31, 2005, provided delivery is accepted within 90 days after the order is placed.

Not less than 8 weeks prior to placing filter media (iron-modified activated alumina), the Contractor shall furnish the Engineer a statement from the vendor that the order for the filter media (iron-modified activated alumina) required for this contract has been received and accepted by the vendor. The statement from the vendor shall include the quantity of filter media (iron-modified activated alumina) ordered and the anticipated date of delivery.

A Certificate of Compliance from the manufacturer of the filter media (iron-modified activated alumina) shall be furnished in accordance with the provisions of Section 6-1.07, "Certificates of Compliance" of the Standard Specifications.

Filter media (iron-modified activated alumina) shall be handled in accordance with manufacturer's instructions, and installed in conformance with details shown on the plans and "Wash Filter Media" of these special provisions and as directed by the Engineer.

Filter media (iron-modified activated alumina) shall be measured by the cubic meter. Quantities of filter media (iron-modified activated alumina) shall be as shown on the plans or such other dimensions as may be ordered in writing by the Engineer.

The contract price paid per cubic meter for filter media (iron-modified activated alumina) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for performing work involved in placing filter media (iron-modified activated alumina) on filter fabric, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.42 FILTER MEDIA (LIMESTONE)

Filter media (limestone) shall conform with the details shown on the plans and to these special provisions.

Filter media (limestone) shall conform to the following requirements:

Filter Media (Limestone) Properties

Physical Property		Testing Method
Effective Size (mm)	0. 20 – 0.60	ASTM C136
Uniformity Coefficient	< 4.0	ASTM C136

Chemical Composition		Testing Method
Calcium Carbonate (CaCO ₃)	> 55 % (> 80 % preferred)	SSSA Series 3 15-9M
Magnesium Carbonate (CaCO ₃)	< 45 %	SSSA Series 3 15-9M
Phosphorus	< 0.15%	SSSA Series 3 15-9M

Filter media (limestone) shall be handled in accordance with the Materials Information Hand Out, and installed in conformance, with “Wash Filter Media” of these special provisions and as directed by the Engineer.

The following potential suppliers have been contacted regarding the availability of the filter media (limestone):

SITE NAME	LOCATION	TELEPHONE
Sierra Rock	1845 Quarry Road, Placerville, CA 95667	(530) 622-8571 (916) 941-1151
Mountain Gate Quarry	1170 Industrial Street, Redding, CA 96002	(530) 221-3406
Chemical Lime Company	11771 Old Stage Road, Salinas, CA 93908	(831) 444-3306 (831) 449-9117

Prior to ordering the filter media (limestone), the Contractor shall furnish the Engineer a sample of filter media (limestone) along with certified test results from a qualified testing laboratory that verify the filter media (limestone) complies with the requirements of these special provisions.

Not less than 8 weeks prior to placing filter media (limestone), the Contractor shall furnish the Engineer a statement from the vendor that the order for the filter media (limestone) required for this contract has been received and accepted by the vendor. The statement from the vendor shall include the quantity of filter media (limestone) ordered and the anticipated date of delivery.

Filter media (limestone) will be measured by the cubic meter. Quantities of filter media (limestone) will be determined from the dimensions shown on the plans or such other dimensions as may be ordered in writing by the Engineer.

The contract price paid per cubic meter for filter media (limestone) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for performing work involved in placing filter media (limestone) on filter fabric, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed.